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## New Product Announcement

# Mouser Electronics Now Shipping Cypress' PSoC 6 Microcontroller with High-Performance Processing and Security

**November 13, 2018** – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the PSoC® 6 microcontroller from Cypress Semiconductor. Bridging the gap between power-hungry application processors and low-performance microcontrollers, the ultra-low-power PSoC 6 microcontroller delivers all-in-one high-performance processing and critical security features that are purpose-built for Internet of Things (IoT) applications.

The Cypress PSoC 6 microcontroller, available from Mouser Electronics, utilizes a dual-core architecture, with an Arm® Cortex®-M4 for high-performance tasks and an Arm Cortex-M0+ for low-power tasks. Active power consumption is as low as 22 µA/MHz for the M4 core, and 15 µA/MHz for the M0+ core. The highly flexible PSoC 6 architecture enables the addition of features, such as USB, *Bluetooth*® low energy, and other software-defined peripherals to create custom analog front ends (AFEs) and digital interface circuits that address the needs of those IoT designs requiring multiple connectivity options.

For IoT security, PSoC 6 integrates a hardware-based Trusted Execution Environment with secure boot capability and integrated secure data storage to protect firmware, applications and secure assets such as cryptographic keys. The device also implements industry-standard symmetric and asymmetric cryptographic algorithms which include elliptical-curve cryptography, Advanced Encryption Standard (AES), and secure hash algorithms (SHA 1,2,3).

Mouser is also stocking the PSoC® 6 WiFi-BT Pioneer Kit, which provides a PSoC 6 WiFi-BT Pioneer Board, TFT display shield, necessary jumper wires, and a USB cable for evaluation and development. The Pioneer Board offers header footprints for compatibility with Arduino Uno shields and Digilent® Pmod™ modules, plus a five-segment slider, two buttons, and one proximity-sensing header that allow engineers to evaluate Cypress' CapSense® capacitive touch-sensing technology. The TFT display shield board includes a 2.4-inch display, six-axis motion sensor, ambient light sensor IC, and PDM microphone for voice input.

To learn more about the Cypress PSoC 6 microcontroller, visit www.mouser.com/cypress-psoc-6-soc.

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With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

**About Mouser Electronics**

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

**About Cypress Semiconductor**

Cypress is the leader in advanced embedded system solutions for the world's most innovative automotive, industrial, smart home appliances, consumer electronics and medical products. Cypress' microcontrollers, analog ICs, wireless and USB-based connectivity solutions and reliable, high-performance memories help engineers design differentiated products and get them to market first. Cypress is committed to providing customers with the best support and development resources on the planet enabling them to disrupt markets by creating new product categories in record time.

**Trademarks**



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